

WE CLAIM:

1. A table saw comprising:

5 a mounting frame having first and second side frame portions which are spaced apart from each other in a longitudinal direction to define an accommodation space therebetween, and first and second bearing members which are secured on said first and second side frame portions, respectively, each of said first and second side frame portions extending in a transverse direction relative to the longitudinal direction, and defining a sliding path, said 10 first side frame portion having a first access slot extending in the transverse direction and along a first path that corresponds to the sliding path;

15 a worktable mounted on and turnable relative to one of said first and second side frame portions so as to shield or expose said accommodation space;

20 a support seat received in said accommodation space, and including first and second supported ends which are opposite to each other in the longitudinal direction and which are configured to be journalled on said first and second bearing members, respectively, and to be slidable relative thereto along the sliding path, respectively, and a seat frame which is interposed between said first and second supported ends, and which includes mount and seat segments disposed proximate 25 to said first and second supported ends, respectively;

a motor mounted under said mount segment, and pivotable relative to said mount segment about a pivot axis in the

transverse direction, said motor having an output shaft extending in the transverse direction to deliver a driving force;

5 a blade shaft including mount and driven ends which are disposed at opposite sides of said seat segment in the transverse direction, said driven end being coupled to said output shaft so as to be driven by the driving force to rotate about a first axis parallel to the pivot axis, said blade shaft further including a shaft body interposed between said
10 mount and driven ends;

a saw blade mounted to be rotated with said mount end of said blade shaft, and having a cutting region which extends above said worktable in an upright direction;

15 a spindle mounted on said mount segment, and rotatable relative to said mount segment about a second axis parallel to the first axis;

a coupler disposed to couple said spindle to said shaft body such that when said spindle is rotated about the second axis from a starting point to an end point, said shaft body
20 is turned about the second axis from a first angular position to a second angular position;

a height adjusting rod including an actuating end which is disposed to actuate said spindle to rotate about the second axis, an operating end which is opposite to said actuating
25 end in the longitudinal direction and which is disposed outwardly of said first side frame portion so as to be operable externally, and a shank segment which is interposed

between said actuating end and said operating end, which passes through said first access slot, and which is shiftable along the first path;

5 an inclination adjusting member disposed to actuate said first supported end to move along the sliding path so as to change an angular position of said cutting region of said saw blade relative to said worktable; and

10 a fastening member disposed to releasably fasten said first supported end relative to said first side frame portion.

2. The table saw of Claim 1, wherein each of the sliding path and the first and second paths is of an arc-shape, and is concaved downwardly and in the upright direction.

15 3. The table saw of Claim 2, wherein said coupler includes a sleeve which surrounds and which permits rotation of said shaft body, and a linkage which interconnects said spindle and said sleeve so as to move said shaft body angularly when said spindle is rotated about the second axis.

20 4. The table saw of Claim 3, wherein said spindle has a surrounding toothed portion, said height adjusting rod being disposed to be rotatable relative to said mount segment about a third axis in the longitudinal direction, said actuated end of said height adjusting rod having a threaded surface which meshes with said surrounding toothed portion so as to
25 drive said spindle to rotate about the second axis when said height adjusting rod is rotated about the third axis.

5. The table saw of Claim 4, wherein said inclination

adjusting member includes

5 a mounting seat secured to said first supported end, and including a pulled end which is distal from said first supported end in the upright direction, and which has a screw hole that extends in the transverse direction,

10 an inclination adjusting rod having a threaded end which engages threadedly said screw hole, and which is rotatable relative to said mounting seat about a fourth axis parallel to the first axis so as to screw in or out of said screw hole along the fourth axis, and a driven end which is provided with a first bevel gear thereon, and

15 an operating rod extending in the longitudinal direction, and having a coupling end which is provided with a second bevel gear that meshes with said first bevel gear, and an externally operated end which is disposed outwardly of said first side frame portion and which is operable to rotate said operating rod about a fifth axis in the longitudinal direction so as to rotate said threaded end of said inclination adjusting rod to screw in said screw hole, thereby pulling said pulled end towards said coupling end of said operating rod to result in movement of said first supported end along the sliding path.

20 6. The table saw of Claim 5, wherein said first supported end has a screw bore formed therein, said first side frame portion having a second access slot which extends along a second path that corresponds to the sliding path, said fastening member including

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a locking bolt having an enlarged head and a threaded shank which extends through said second access slot and which engages threadedly said screw bore so as to permit screw-in movement thereof relative to said first supported end,

5 a washer sleeved on said threaded shank and disposed outwardly of said first side frame portion, and

a spring disposed between said enlarged head and said washer, and biasing said enlarged head away from said washer such that when said threaded shank is screwed in said screw bore, said enlarged head is moved toward said washer against biasing action of said spring so as to permit abutment of said washer against said first side frame portion.

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7. The table saw of Claim 5, further comprising a height indicating unit that includes a post which is secured to said mounting seat and which extends through said first access slot, a gear wheel which is mounted on said post and which is rotatable relative to said post about a sixth axis parallel to the third axis and which has a scale, an indicator which is secured to said post and which cooperates with said scale to display the height of said cutting region of said saw blade, and a gear which is mounted on and which is rotated with said operating end of said height adjusting rod, which meshes with said gear wheel, and which rotates said gear wheel relative to said indicator.

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8. The table saw of Claim 5, further comprising an inclination indicating unit that includes an indicator secured to and moved with said mounting seat, a scale provided on said first

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side frame portion, and a window formed in said first side frame portion adjacent to said scale and configured to correspond to the sliding path and to permit said indicator to be seen externally so that the degree of inclination of said cutting region is determinable with reference to said scale.

9. The table saw of Claim 1, further comprising a blade protecting unit that includes a third access slot formed in said second side frame portion and defining a third path corresponding to the sliding path, an anchored shaft secured to said seat frame and extending through said third access slot, and a cover pivoted to said anchored shaft about a second pivot axis in the transverse direction and configured to cover or expose said saw blade when turned about the second pivot axis to a closed position or an open position.

10. The table saw of Claim 1, further comprising a biasing member disposed to bias said motor away from said blade shaft.